

USSR

UDC 666.11.01:620.193.42

ANDRIANOVA, L. V., Candidate of Sciences, MOLCHANOV, V. S.

"Alkali Resistance of Phosphate and Borate Glasses and Alkali Washing of Grass Items"

Leningrad, Optiko-mekhanicheskaya promyshlennost' No 11, Nov 71, pp 38-41

Abstract: The alkali resistance of non-silicate optical phosphate and borate glasses for industrial use are determined. The alkali resistance was characterized by layer thickness δ , dissolved during four hours in 0.5 normal solution of caustic soda (solution volume 0.6 to 0.8 1) at 90°C, calculated by formula $\delta = \Delta$ P/S·d where δ is the layer thickness, Δ P is the weight decrement of a plate, S is the plate surface, and d is the glass density. The latter was determined by the method of hydrostatic weighing. Results are presented in a table containing also data on certain silicate glasses obtained by the same method. It is shown that alkali washing is tolerated only for such glasses, from which a layer not more than 3-4 micrometer thick is scoured during four hours in a 0.5 normal solution of NaOH at 90°C.

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USSR

UDC 615.285.7.017:615.277.4

ANDRIANOVA, M. M., and ALEKSYEV, I. V., Laboratory of Carcinogens, Institute of Nutrition, Academy of Medical Sciences USSR, Moscow

"Carcinogenic Properties of the Pesticides Sevin, Maneb, Ziram, and Zineb"

新生业之间,1880年的1881年的1886年的1886年

Moscow, Voprosy Pitaniya, No 6, 1970, pp 71-74

Abstract: Nonpurebred rats were fed seven (30 mg/kg), maneb (335 mg/kg), ziram (70 mg/kg), or zineb (285 mg/kg). Other rats received subcutaneous implants of the pesticides (20 mg of sevin, 12.5 mg of maneb, 15 mg of ziram, or 20 mg of zineb). Among the enimals still alive after 22 months, malignant tumors were found in 6 of 22 that received sevin (4 orally and 2 subcutaneously), 5 of 10 that received maneb (2 orally and 3 subcutaneously), 7 of 20 that received ziram (4 orally and 3 subcutaneously), and 6 of 16 that received zineb (2 orally and 4 subcutaneously). Only 1 of the surviving 46 control rats developed a tumor. The pesticides evidently possess systemic action, for the tumors appeared in a variety of organs (but never at the injection site).

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USSR

UDC (539.551+531.424):(546.24+546.683-143)

T. N., ALEKSANDROZ, A. A., OKHOMIN, V. S., RAZUMEYCHENKO, L. A., AVDRIANOVA PANINA, Z. I.

"Viscosity and Density of Melts in the Thallium-Tellurium System"

Teplofizika Vysokikh Temperatur, Vol 9, No 5, 1971, pp 934-937.

Abstract: Results are presented from studies of the viscosity and density of melts in the thallium-tellurium system in the concentration interval from 32 at.% Te to 100% Te and in the temperature interval from the melting point to 1,300°K. Analysis of the isotherms of the properties studied shows the existence in the liquid phase of the stable compound Tl, Te, which does not dissociate over a broad temperature range. An unalysis is presented of

structural changes in melts of the concentrations studied.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210001-3"

USSR

UDC 621.362.2

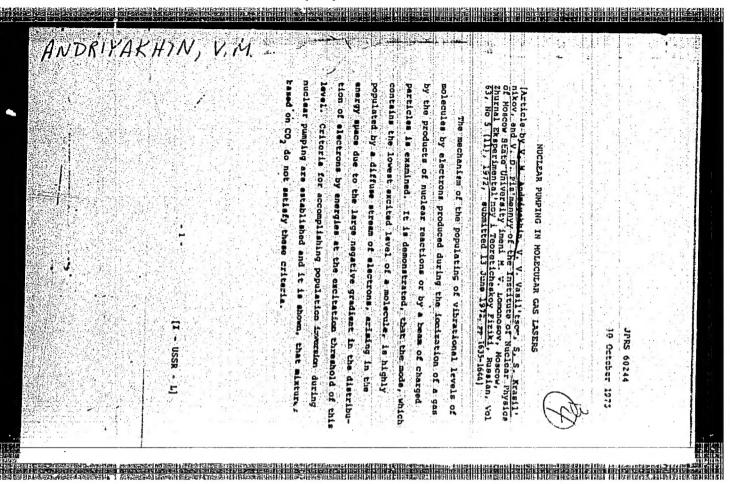
ANDRIANOVA, T. N., ALEKSANDROV, A. A., OKHOTIN, V. S., PANINA, Z. I.,

"Investigation of Semiconductor Systems Based on Sb₂Se₃ in the Molten State"

Tr. Mosk. energ. in-ta (Works of the Moscow Power Engineering Institute), 1970, vyp. 75, pp 192-196 (from RZh-Elektrotekhnika i Energetika, No 1, Jan 71, Abstract No 1A159)

Translation: An investigation is made of the effect of various elements on the structure of antimony selenide in the molten state. The kinematic viscosity and density of melts of Sb, Se, Zn, Cu, Ga, In, Te and Sn in antimony selenide were measured. The change in structure of melts of 80 at. % Sb₂Se₃ + 20 at. % Ga and 80 at. % Sb₂Se₃ + 20 at. % Sn takes place over a narrow temperature interval of $\Delta t \approx 50^{\circ}$ K, while the structure of a melt of 80 at. % Sb₂Se₃ + 20 at. % In varies continuously over the entire temperature interval from 950 to 1300°K. Two illustrations, bibliography of two titles. A. Kh. Cherkasskiy.

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USSR

UDC 532.595.2

ANDRIYANKIN, E. I., BOBOLEV, V. K., DUBOVIK, A. V., Moscow

"Collapse of an Elliptical Cavity and Excitation of an Explosion in a Layer of Liquid by an Impact"

Zhurnal Prikladnoy Mekhaniki i Tekhnicheskoy Fiziki, No 5, 1971, pp 78-85.

ABSTRACT: Experiments have shown that an initially circular bubble is slightly displaced or converted to an elliptical bubble during the process of collapse, further compression of which causes the appearance of cumulative streams. This process if of interest for the study of the wear of surfaces in a cavitating stream and in the analysis of the sensitivity of liquid explosives to impacts. The development of cumulation can be conveniently studied by making the cavity elliptical in advance or by displacing a circular cavity relative to the axis of impact, thus creating a pressure field asymmetrical relative to its center. This work presents some theoretical considerations on the nature of the cumulative stream which develops in an elliptical or displaced cavity and its influence on the excitation of explosion of liquid explosives due to the formation of small drops in the adiabatically heated gas within the cavity. The experimental data on the time of formation of streams and the frequency of explosions of nitroglycerin qualitatively confirm the theoretical statements. - 47 -

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210001-3"

USSR

LOVTSOV, V. V., RIVKIN, L. A., POTEKHIN, B. I., ANDRIYANOV, A. M.

"New Air Distributors with Twisted Supply Streams"

Naladka i Proyektir. Sistem Prom. Ventilyatsii i Konditsionir. Vozdukha [Adjustment and Planning of Commercial Ventilation and Air Conditioning Systems -- Collection of Works], Moscow, 1971, pp 10-21, (Translated from Referativnyy Zhurnal, Mekhanika, No 4, 1972; Abstract No 4 B309 by A. S. Malyutin).

Translation: New air distributors have been created, distinguished by great damping of relative velocities and temperatures, as well as simplicity of design: an input pipe, a wall ejection air distributor, a floor ejection air distributor. Comparative are presented on the air distributors with similar devices created earlier, showing that when the new air distributors are used, the quantitative loads can be increased and the working temperature difference can be up to 50°. The air distributors suggested allow the quantity of supply air to be changed between 10 and 150% of the nominal quantity without reducing the quality of air distribution.

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UR 9054

AUTHORS --

ZARZHEVSKIY, I., ENGINEER WITH THE CHELYABINSK TRACTOR PLANT, STEPANOV, V., FORMER PARTY ORGANIZER OF THE PLANT, DIRECTOR OF THE PLANT MUSEUM, AND ANDRIYANOV, V. CORRESPONDENT

TITLE--

TANKOGRAD /CITY OF TANKS/

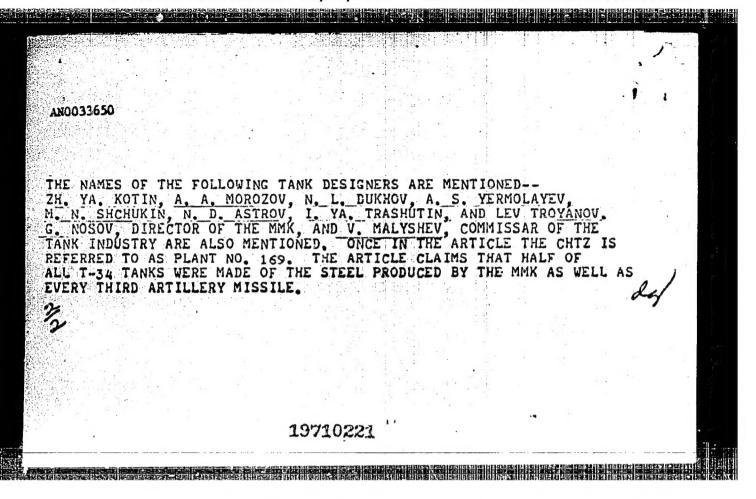
NEWSPAPER -- KOMSOMOL, SKAYA PRAVDA, MARCH 27, 1970, P 2

ABSTRACT-- THE ROLE OF THE CHELYABINSK TRACTOR PLANT /CHTZ/ AND THE MAGNITOGORSK METALLURGICAL COMPLEX /MMK/, AS ARMS SUPPLIERS DURING THE SECOND WORLD WAR, IS REVIEWED. THE ARTICLE IS BASED ON THE FOLLOWING PUBLICATIONS-- **URAL YUZHNYY** BY L. NIKULIN, 1943 - **PATRIOTKI**, CHELYABGIZ, 1941 - **TRUDOVOY PODVIG SOVETSKIKH TANKOSTROITELEY**, 1946 - SBORNIK **CHELYABINSK**, 1967 - MANUFSCRIPT **THE HISTORY OF THE CHELYABINSK TRACTOR PLANT.

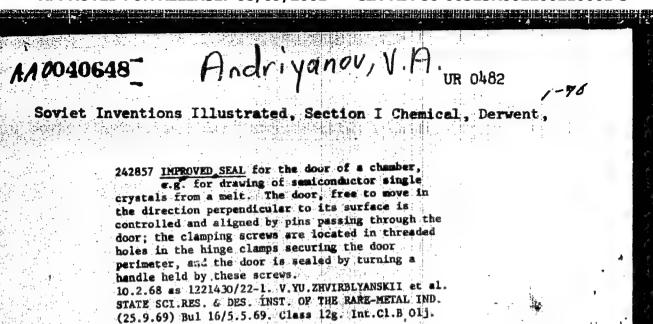
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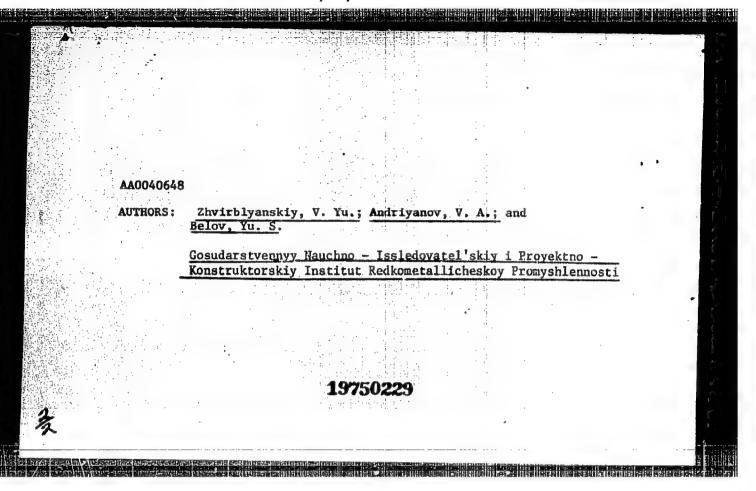
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19750228



1/2 025 UNCLASSIFIED PROCESSING DATE--090CT/0
TITLE-A GENERAL PURPOSE MULTIBALL BURNISHER -U-

AUTHUR-(03)-ANDRIYASIN, V.A., CHEPA, P.A., SHEYKO, I.I.

COUNTRY OF INFO-USSR

SOURCE-MOSCOW, STANKI I INSTRUMENT, NO 2, 1970, PP 30-31

DATE PUBLISHED -----70

SUBJECT AREAS-MECH., IND., CIVIL AND MARINE ENGR

TOPIC TAGS-HYDRAULIC EQUIPMENT, SURFACE PROPERTY, METAL POLISHING. PLASTIC DEFORMATION, METAL WORKING MACHINE

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS-UNCLASSIFIED PROXY REEL/FRAME--1993/1776

SIEP NO--UR/0121/70/000/002/0030/0031

CIRC ACCESSION NU--APO114275

UNCLASSIFIED

025 UNCLASSIFIED PROCESSING DATE--090CT70 CIRC ACCESSION NO--APOLIA275 ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. FOR FINISHING HORKS ON PARTS OF LOW RIGIDITY (SUCH AS COUPLING RODS FOR HYDRAULIC CYLINDERS) BY THE METHOD OF SURFACE PLASTIC DEFORMATION, THE SCIENTIFIC RESEARCH INSTITUTE OF MACHINERY MANUFACTURE AND METAL WORKING (MINSK) HAS DEVELOPED A GENERAL PURPOSE MULTIBALL BURNISHER, A DISTINCTIVE FEATURE OF WHICH IS THE POSSIBLITY OF READJUSTMENT FOR PROCESSING PARTS WITH A DIAMETER FROM 10--32 MM VIA THE PLACING OF BALLS OF APPROPRIATE DIMENSIONS. DISCRIPTION OF THE MACHINE IS GIVEN, AND ITS OPERATION IS DESCRIBED. SUCH BURNISHERS ARE RECOMMENDED FOR FINISHING WORK ON PARTS OF VARIOUS SIZES WITH A REQUIRED SURFACE CLEANNESS OF CLASS 9-10. UNCLASSIFIED

USSR

UDC: 629.78.017.2

ANDRIYENKO, A. Ya.

"Statistical Synthesis of Optimum Pulse-Type Control Systems for Space Vehicles With Regard to Limitations on the Structure of the System"

Moscow, Upr. dvizhushchimisya ob"yektami. Tr. IV Vses. soveshch. po avtomat. upr. Tbilisi, 1968--sbornik (Control of Moving Objects. Works of the Fourth All-Union Conference on Automatic Control. Tbilisi, 1968--collection of papers), 1972, pp 242-256 (from RZh-Raketostroyeniye, No 10, Oct 72, abstract No 10.41.54)

Translation: Statistical methods are proposed for synthesizing pulse systems with regard to the following restrictions: on the storage capacity of the controlling device; on the number of devices which reproduce coefficients of the algorithm of operation of the controlling device; on the type of operations which can be realized in the controlling device. These methods are outlined as applied to terminal control systems. The restriction on storage capacity is achieved by limiting the volume of information which is processed in the controlling device as the controlling signal is formed. The problem of synthesis is solved on the basis of the theory of statistical

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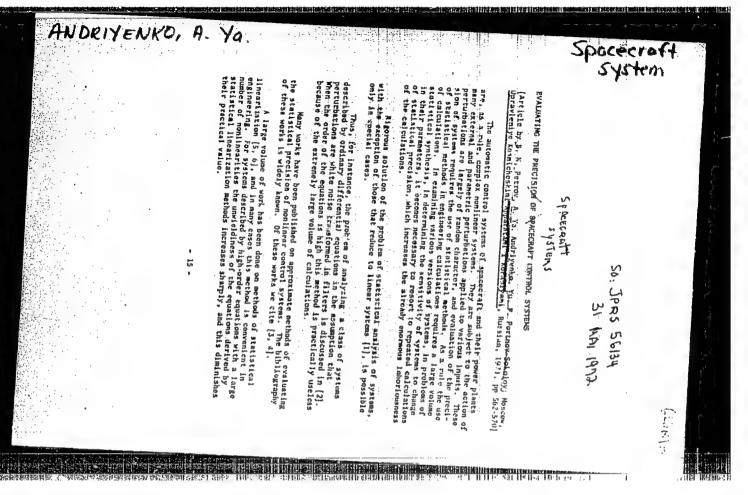
USSR

ANDRIYENKO, A. Ya., Upr. dvizhushchimisya ob"yektami. Tr. IV Vses. soveshch. po avtomat. upr. Tbilisi, 1968--sbornik, 1972, pp 242-256

solutions and dynamic programming. Restrictions of the second type may be approximately accounted for by optimizing the time-sequencing program for intervals of quantization of the pulse system. In synthesizing systems with restrictions of the third type it is assumed that only algebraic operations can be realized in the controlling device. Synthesis is done by using an experimental method of statistical linearization on a digital computer for the case of a limited number of realizations of control processes. Bibliography of four titles. Résumé.

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USSR

UDC 621.224-233.2.001.24

ANDRIYENKO, B.K., Engineer

"Study and Design of Hydraulic Turbine Guide Bearings With Rubber Metal Bushings and Water Lubrication"

Leningrad, Energo-Mashinostroyeniye, No 4, Apr 71, pp 19-21

Abstract: A series of laboratory investigations on guide bearings with rubber-metal bushings carried out with the purpose of determining the nature of friction, is reported. Tests were conducted on a horizontal stand with shafts 250 mm in diameter, with characteristics approaching the existing installations. Samples of bushings with pasted sheet rubber with average MB-B-C hardness (GCST 7338-65) and mechanical properties close to TY 3199-52 rubber used in turbine bearings were tested. The experimental data on friction dependence on specific pressure f= (p) for 4.10 and 15 m/sec slip velocity presented in a graph show that the friction coefficient first increases passes through a maximum (0.0107-0.0115) then decreases, and that rubber bushings obey all the principles of friction theory and differ from hard oil bearings by increased pliability and low viscosity of water. A method for the design of rubber bearings developed on the basis of these results, together with data from operations of various hydroelectric stations, makes it possible to select the height dimensions of bearings in accordance with calculated values of radial load and admissible specific pressures. 1/1.

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UNCLASSIFIED PROCESSING DATE--11SEP70
TITLE--VOLT AMPERE CHARACTERISTICS OF A GLASSY SEMICONDUCTOR, TIASSE SUB2,
AT HIGH VOLTAGES -U-

AUTHOR -- ANDRIVESH. A.M., KROITORU, N.

COUNTRY OF INFO--USSR

SOURCE--FIZ. TEKH. POLUPROV. 1970, 4(3), 563-5

DATE PUBLISHED-----70

SUBJECT AREAS--PHYSICS

TOPIC TAGS--SOLID STATE PHYSICS, SEMICONDUCTOR DEVICE, VOLT AMPERE

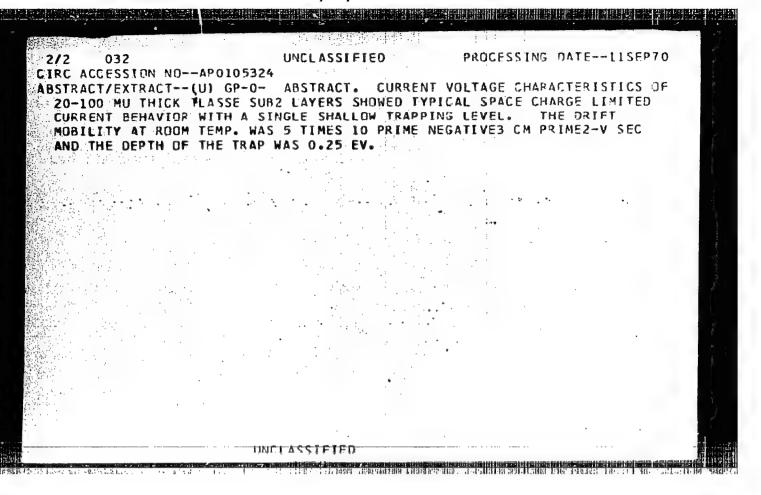
CONTROL MARKING--NO PESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY PEEL/FRAME--1988/0250

STEP NO--UR/0449/70/004/003/0563/0565

CIRC ACCESSION NO--APO105324

UNCLASSIFIED



UNCLASSIFIED PROCESSING DATE--LISEPTO
TITLE--ENERGY SPECTRUM OF VITREOUS ARSENIC SULFIDE -U-

AUTHOR-KOLOMIYETS, B.T., MAZETS, T.F., EFENDTYEV, SH.M., ANDRIYESH, A.M.

COUNTRY OF INFO--USSR

SOURCE-- J. NON. CRYST. SOLIDS 1970, 4(1), 45-56

DATE PUBLISHED ---- 70

SUBJECT AREAS--MATERIALS, PHYSICS

TOPIC TAGS--ABSORPTION SPECTRUM, ARSENIC SULFIDE, VOLT AMPERE CHARACTERISTIC, ENERGY SPECTRUM, PHOTOGONDUCTIVITY, SEMICONDUCTOR FILM, FORBIDDEN BAND

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1990/0386

STEP NO--NE/0000/70/004/001/0045/0056

2/2 026 UNCLASSIFIED PROCESSING DATE--1'1SEP70 CIRC ACCESSION NO--ATOLO8680 ABSTRACT/EXTRACT--(L') GP-0-ABSTRACT. A BRIEF REVIEW OF AN EXPTL. STUDY DE REFLECTIVITY, ABSORPTION AND PHOTOCOND. SPECTRA, AND CURRENT VOLTAGE CHARACTERISTICS OF VITREOUS AS SULFIDE IS PRESENTED. THE ABSORPTION SPECTRA WERE OBTAINED IN THE HIGH ABSORPTION RANGE UP TO K EQUALS 10 PRIMES CM PRIME NEGATIVEL. THE VALUE OF THE FORBIDDEN BAND E SUBG OF VITREDUS AS SUB2 S SUB3 OBTAINED FROM THE OPTICAL DATA IS 2.4 EV. ABSORPTION EDGE AT ENERGIES E IS LESS THAN E SUBG HAS AN EXPONENTIAL CHARACTER DUE TO LOCALIZED STATES NEAR THE ALLOWED BAND EDGES. IN AN ELEC: FIELD THE EXPONENTIAL ABSORPTION EDGE SHIFTS TO A LOWER ENERGY RANGE OBEYING FRANZ . THEORY. FROM A STUDY OF THE PHOTOCOND. SPECTRA AND CURRENT VOLTAGE CHARACTERISTICS IN THE NONLINEAR RANGE, SOME CONCLUSIONS CAN BE MADE CONCERNING THE ENERGY DISTRIBUTION OF THE LOCALIZED STATES IN THE FORBIDDEN BAND OF THE AMORPHOUS AS SULFIDE FILMS. ZZZZZZZZZZZZZZ

UDC 616.981.42-07

USSR

Curriculum of Epidemiology, Kishinev Medical Institute

"Utilization of the Immunofluorescent Method in the Diagnosis of Brucellesis"

Kishinev, Zaravookhraneniye, No 3, May/Jun 70, pp 7-8

Abstract: The objective of this study was to investigate the sensitivity of the immunofluorescent method for detection of antibodies in the serum of persons recovering from brucellosis or exposed to the disease. The following reagents were used to prepare microscope slides: a very dilute antigen solution, variously diluted serum samples, and rabbit luminescent antiserum against human gamma-globulins. The slides were examined in the ML-2 microscope under nonfluorescent oil. The series included 61 serum samples from people suffering from brucellosis in 1948-1950 (group I); 101 samples from persons exposed to the disease (group II); and 45 samples from healthy persons (control group). While there was not a single case of the specific Brucella fluorescence in the control group, a definite fluorescence (evaluated as 3 plus and 4 plus) was observed in 29 serum samples of the first and second groups. Simultaneous examination of all samples by the Huddleson reaction and the agglutination test yielded negative results in all cases. The antibodies detected were probably incomplete antibodies. It was concluded that the immunofluorescent method is specific, sensitive, and suitable for retrospective diagnosis of brucellosis in humans.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210001-3"

USSR

ANDRIYEVSKAYA, S. V., DARKHOVSKIY, B. S. and ZHIVOV, N. P.

"The Problem of Testing Deviations in Production Processes"

Inform. Metody v Sistemakh Upr. Izmereniy i Kontrolya. T. 1 [Information Methods in Control, Measurement and Testing Systems, Vol 1 -- Collection of Works], Vladivostok, 1972, pp 417-424 (Translated from Referativnyy Zhurnal Kibernetika, No 9, 1973, Abstract No 9V807).

Translation: The following problem is studied. The input vector u acts on initial system S in which it is converted to output vector y. System S itself is not subject to any deviations. Operator F, at the input of which vector u, y and external factor z, independent of u and y act, forms deviation R according to some rule. Deviation R acts on system S, changing its characteristics in the broad sense of this word. It is necessary, by observing vector y and knowing certain a priori information concerning u, z and operator F, to find deviation R as rapidly as possible.

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USSR

ANDRIYEVSKAYA, V. V.

"Study of the Process of Solution of Verbal Semantic Problems"

Linguist. Probl. Avtomatiz. Inform. Poiska [Linguistic Problems of the Automation of Information Retrieval -- Collection of Works], Kiev, 1972, pp 91-101 (Translated from Referativnyy Zhurnal Kibernetika, No 9, 1973, Abstract No 9V829).

Translation: A speech process is analyzed as verbal modeling of a certain content and an attempt is made to establish how the selection of words in aural speech depends on the understanding of the sense of the speech. Data from the experiments are presented. Ye. Burgina

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ANO 013069

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UR9028

AUTHOR --

ANDRIYEVSKIY M. CANDIDATE OF TECHNICAL SCIENCES, HEAD OF THE CENTRAL ENGINEERING-DESIGN BUREAU OF THE MINISTRY OF THE RIVER FLEET /CEB/

TITLE --

FROM BLUE PRINTS ONTO WATER

NEWSPAPER -- VODNYY TRANSPORT, JANUARY 20, 1970, P 2, COLS 1-7

ABSTRACT-- THE CEB HAS DEVELOPED NEW TYPES OF PASSENGER RIVER SHIPS. THE "MOSKVA-1" AND THE "NEVA-1" AND ALSO A WATER JET-PROPELLED TYPE OF A SHIP, THE "ZARYA". THE "ZARYA" CAN CARRY 60 PASSENGERS AT SPEEDS UP TO 40 KILOMETERS PER HOUR IN WATERS AT LEAST 80 CM DEEP.

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CURRENTLY THE CEB IS BUSY WITH THE BLUEPRINTS FOR A 150-PASSENGER CATAMARAN SHIP CAPABLE OF SPEEDS CLOSE TO 45 KM PER HOUR.

THE CEB IS ALSO WORKING ON A 2.150-TON MOTOR SHIP AND A 2.150-TON TANKER FOR THE LENA STEAMSHIP LINE. THESE SHIPS WILL BE ABLE TO PLY IN COASTAL WATERS. THE CONSTRUCTION OF THE TANKER HAS BEEN STARTED AT THE OSETROVSKAYA SHIPYARD.

THE CEB COLLABORATES WITH THE GOR KIY INSTITUTE FOR WATER TRANSPORT ENGINEERS, PARTICULARLY WITH PROFESSOR M. YA. ALFER, YEV, AN EXPERT ON THE CATAMARAN TYPE OF SHIPS.

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UDG 539.37.376

ANDRIYEVSKIY, R. A., SPIVAK, I. I., and KLIMENKO, V. V.

"Manifestation of Superplasticity in Refractory Compounds"

Moscow, Doklady Akademii Nauk SSSR, Vol 203, No 6, 1972, pp 1279-1281

Abstract: The authors studied the possibility of the manifestation of superplasticity in two-phase composites based on refractory compounds. The systems VC-ZrC, VC-HfC and TiC-ZrC were selected for this purpose. Specimens were prepared by hot forming with subsequent annealing at 2500° C; porosity of the VC-ZrC, VC-HfC, TiC-ZrC composites was respectively 1.5-3, C-15, 4-6 percent; the testing procedure consisted in studying bend creep. The results indicate that many of the regularities found in studying the superplasticity of metallic alloys (nonlinear relation between creep rate and O, the manifestation of superplasticity in two-phase alloys whose phase volumes are equidimensional, and the size of inclusions amounting to several microns) are also observed in the case of carbide composites.

The authors thank K. L. CHEVASHEVA for her help in the work.

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USSR

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SHEVCHENKO, A. S., ANDRIYEVSKY, R. A., KALININ, V. P., and LYUTIKOV, R. A.,

"Study of the X-Ray and Pycnometric Density of Interstitial Phases on a

Kiev, Academy of Sciences Ukr SSR, Poroshkovaya Metallurgiya, No 1, Jan 70,

Abstract: The results of an investigation of the X-ray (\(\) r) and pycnometric (\(\) D) density of nitrides, carbides, hydrides, and carbo- and nitrohydrides of zirconium in a homogeneous field are presented. The density was measured on a and the scattering of experimental data on \(\) not more than \(\) 10.02 g/cm³. Electrolytic zironium powder was used as the primary material. It was nitrides. The hydrogen saturation was accomplished at 700-900°C, and the carof spectral purity in a 10-0 mm mercury column vacuum at 1700-2000°C with intermediate pulverization.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210001-3"

USSR

SHEVCHENKO, A. S., et al, Poroshkovaya Metallurgiya, No 1, Jan 70, pp 89-91

The ternary compounds were synthesized from Zr - ZrN and Zr - ZrC mixtures in a hydrogen medium at 900-1000°C. The variation in lattice parameters with the composition of the zirconium carbides and nitrides is presented in a table. On the basis of the results obtained it can be assumed that the defects of carbides, hydrides, and carbo- and nitrohydrides result from the incompleteness of the nonmetallic sublattice. In zirconium nitrides with a high content of nonmetallic impurities, the discrepancy between Yr and Yp may be due to the defect of the metallic sublattice, which disappears with increased material purity. Orig. art. has: 1 table and 13 references.

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ANO 025930

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AUTHORS --

TIMOFEYEV, B., CORRESPONDING MEMBER OF THE UKRAINIAN ACADEMY OF SCIENCES, DIRECTOR, INSTITUTE OF AUTOMATICS, AND ANDRIYEVSKIY, S., CHIEF ENGINEER OF THE INSTITUTE

TITLE --

THE MACHINE THAT READS

NEWSPAPER -- RABOCHAYA GAZETA, FEBRUARY 24, 1970, P 3, COLS 7-8

ABSTRACT-- THE CHAIR OF ENGINEERING ELECTRONICS OF THE KIYEV
POLYTECHNIC INSTITUTE IS ONE OF THE CENTERS WHERE RESEARCH IS BEING
CONDUCTED IN THE AUTOMATED PROCESSING OF GRAPHIC INFORMATION. THE
TEAM WHICH IS INVOLVED IN THIS WORK IS HEADED BY DOCTORS OF TECHNICAL
SCIENCES V. P. SIGORSKIY AND A. I. PETRENKO. ASSOCIATES OF THE
CHAIR HAVE PUBLISHED 5 MONOGRAPHS, INCLUDING "METHODS AND DEVICES
FOR THE CONVERSION OF GRAPHIC INFORMATION", AND "THE AUTOMATIC INPUT
OF GRAPHS IN ELECTRONIC COMPUTERS". THE RESEARCH ENCOMPASSED THE
FOLLOWING AREAS-- IMPROVING THE ACCURACY AND THE RELIABILITY OF
MEASURING INDEXES. DEVELOPMENT OF COLOR READING DEVICES, DEVELOPMENT

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OF CONVERTING DEVICES FOR OBTAINING GRAPHS WITH SPECIFIED CHARACTER-ISTICS. USING SIMPLE AND RELIABLE COLOR DECODERS, THERE HAVE BEEN PROPOSED AND TRIED METHODS OF READING AND DIGITAL RECORDING OF MAPS AND GRAPHS. ONE OF THE DEVICES DEVELOPED BY THE INSTITUTE ENABLES A COMPUTER TO READ READILY GRAVITATIONAL, MAGNETIC OR TOPOGRAPHIC MAPS. ANOTHER DEVICE ENABLES ANY COMPUTER TO DISTINGUISH THE COLORS OF RAINFALL, TO RECORD THEM AND TO READ THEM INTO ITS MEMORY.

THE CHAIR OF ENGINEERING ELECTRONICS IS COORDINATING RESEARCH IN THE AREA OF CONVERSION AND INPUT OF GRAPHIC MATERIAL ON THE ALL-UNION SCALE.

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19660850

UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--MAGNETORESISTANCE OF BISMUTH THIN FILMS IN A PARALLEL MAGNETIC

FIELD -U-

AUTHOR-(02)-ANDRIYEVSKIY. V.V., KOMNIK. YU.F.

COUNTRY OF INFO--USSR

SOURCE-FIZ. TVERD. TELA 1970, 12(5), 1582-4

DATE PUBLISHED----70

SUBJECT AREAS--CHEMISTRY, MATERIALS

TOPIC TAGS-BISMUTH, MAGNETIC FIELD, MAGNETORESISTANCE, VACUUM DISTILLATION, METAL VAPOR DEPOSITION, METAL FILM

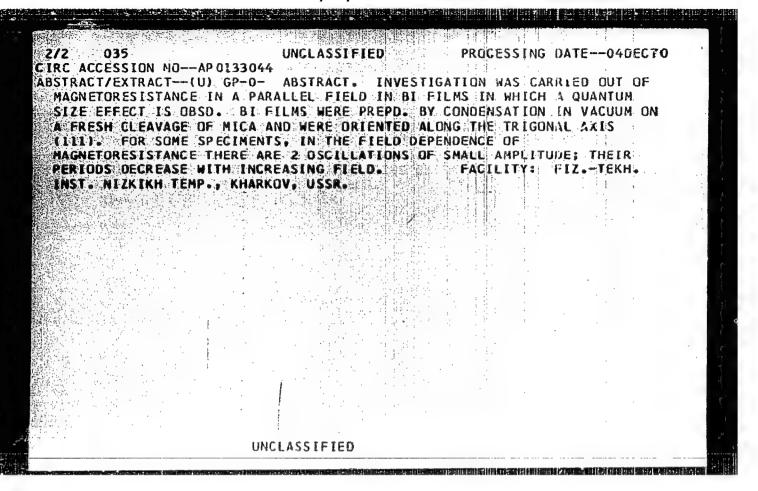
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3005/0958

STEP NO--UR/0181/70/012/005/1582/1584

CIRC ACCESSION NO--AP0133044

UNCLASSIFIED



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CIA-RDP86-00513R002200210001-3

PROCESSING DATE--04DEC70

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TTLE--1,4.BENZODIAZEPINES AND THEIR DERIVATIVES. III. SYNTHESIS AND

CORRELATION BETWEEN THE STRUCTURE AND PHARMACOLOGICAL ACTIVITY OF AUTHOR-(05)-BOGATSKIY, A.V., VIKHLYAYEV, YU.I., ANDRONATI, S.A., KLYGUL,

T.A., CHUMACHENKO, T.K.

COUNTRY OF INFO-USSR

SOURCE--KHIM. - FARM. ZH. 1970, 4(1), 5-9

DATE PUBLISHED----70

SUBJECT AREAS--BIOLOGICAL AND MEDICAL SCIENCES.

TOPIC TAGS-TRANQUILIZER, ANTICONVULSANT DRUG, MUSCLE RELAXANT, HYPNOSIS,

CHEMICAL SYNTHESIS

CONTROL MARKING-NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3008/0540

STEP NO--UR/0450/70/004/001/0005/0009

CIRC ACCESSION NO--APO137629

UNCLASSIFIED

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210001-3"

UNCLASSIFIED PROCESSING DATE--04DEC70

CIRC ACCESSION NO--APO137629

ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE RESULTS OF PHARMACOL. TESTS
WERE GIVEN FOR 14 DERIVS. OF 1,3,DIHYDRO_(2H),1,4,BENZODIAZEPIN,2,ONE
WERE GIVEN FOR 1,3,DIHYDRO_(2H),1,4,BENZODIAZEPIN,2,ONE
SPECTRA WERE ALSO REPORTED. ALL THE COMPOS. COMBINED TRANQUILIZING,
ANTICONVULSANT, MUSCLE RELAXING, AND HYPNOTIC ACTIVITIES; SOME OF THEM
ANTICONVULSANT, MUSCLE RELAXING, AND HYPNOTIC ACTIVITY WERE
REVEALED ALSO SEDATIVE ACTIVITY. DISORDERS OF THE MOTOR ACTIVITY WERE
REVEALED ALSO SEDATIVE ACTIVITY. DOESS. UNIV. IM. MECHNIKOVA,
ODESSA, USSR.

UNCLASSIFIED

USSR UDC: 681.335

TEMNENKO, G. K., PALADIY, M. V., ANDRONATIY, N. R.

"Bridge Scanners for Phototracking Systems"

Elektroenerg. i avtomatika (Electric Power and Automation), vyp. 6, Kishinev, Moldavian SSR Academy of Sciences, 1970, pp 64-74 (from RZh-Avtomatika, Telemekhanika i Vychislitelnaya Tekhnika, No 8, Aug 70, Abstract No 8B133)

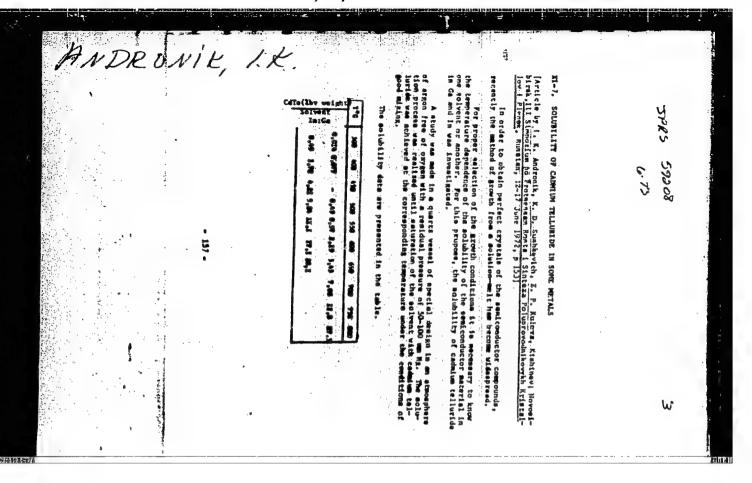
Translation: This article contains an investigation of the operating principle and methods of designing a bridge scanner with a high-resistance output used in automatic control systems and in computation devices when reproducing information given in the form of graphs. There are five illustrations and a nine-entry bibliography.

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- 81 **-**

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002200210001-3



"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002200210001-3

to ord the ord to ord the ord	HNDRONIK,	to obtain homogeneous single crystals of practically unlimited discussions with a concentration of the characteristic defects and low concentrations of the characteristic defects and low concentrations of the har takes place statistication; the liquid zone, purification of the bar takes place statistication; the liquid zone purification of the at a temperature appreciably place the welfish point of the pure compand, the probability of diffusion of the definite point of the pure compand, the creases. The temperature of the some was streamined by the taliuries concentrated in the zone, and it was found within the limits of 700-800°C. The liquid committee constant telluries at the rate of 0.5-1.1 manhour. of 10 The density of the cricking holes in the crystals obtained in me the order of 100-800°C. The liquid concentrate the concentration of the sense of 0.5-1.1 manhour. of 10 The density of the cricking holes in the crystals obtained in me the order of 100-800°C. The sense the order of 100-800°C and the crystals obtained in the order of 100-800°C. The sense of 0.5-1.1 manhour.	XI-14. CHARACTERISTIC PRATURES OF OBTAINING CASHSIM TELLURIDE CRYSTALS PROM A SOLUTION-NELT [Article by], K. Andronsk, K. D. Suphkryich, Kishinavi Movosibista, III Simposion Rosea i Sinters Poluprovodníkovykh Kristallov i Pienok, Russian, 12-17 June 1972, p 1000] Sian, 12-17 June 1972, p 1000 i 1000	57PKS 57208
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USSR

UDC [537.226+537.311.33]:[537+535]

ANDRONIK, I. YA., MUSHINSKIY, V. P.

"Obtaining and Investigating Certain Optical Properties of $In_2S_{3x}Se_3(1-x)$ Single Crystals"

V sb. Nekotor. vopr. khimii i fiz. poluprovodnikov slozhn. sostava (Certain Problems in the Chemistry and Physics of Semiconductors of Complex Composition -- Collection of Works), Uzhgorod, 1970, pp 201-204 (from RZh Fizika, No 12, Dec 71, Abstract No 12Yel441)

Translation: The optical absorption and reflection spectra in the range 1-6 ev were investigated in samples of $\ln_2 S_{3x} Se_{3(1-x)} (0 \le x \le 1)$ produced by chemical

transport reactions at 700°C. The absorption curves measured at 300°k are shifted toward higher energies with an increase in x, and their analysis shows that the boundary of the basic absorption is formed by direct and indirect resolutions of the optical transitions. The energy of direct and indirect transitions is given as a function of the crystal composition. Characteristic of reflection curves are two maxima in the region 4.3 and 5.4 ev, respectively.

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USSR

ANDRONIK, I. YA., MUSHINSKIY, V. P., Nekotor. vopr. khimii i fiz. poluprovodnikov slozhn. sostava, Uzhgorod, 1970, pp 201-204

In crystals with x=0.8-1.0 ev there is observed an additional maximum in the region 3.05 ev, the intensity of which drops with an increase in the concentration of In_2Se_3 . The reflection maximum in the absorption band is caused by vertical optical transitions at critical points of the Brillouin zone. The reflection spectra in the infrared region contain an extreme minimum caused by plasma resonance reflection. A. Ya. 0.

2/2

- 47 -

USSR

UDC 577.17+547.963.3

AMDRONIKASHVILI, E. L., Academician of the Academy of Sciences Georgian SSR, Institute of Physics, Academy of Sciences Georgian SSR

"Possible Mechanism for the Therapeutic Action of Ionizing Radiation"

Tbilizi, Soobshcheniya Akademii Nauk Gruzinskoy SSR, Vol 68, No 2, Nov 72, pp 313-316

Abstract: In 1968 L. M. Mosulishvili, A. T. Belokobyl'skiy, N. Ye. Kharabadze, and E. N. Ginturi, staff members of the Institute of Physics Academy of Sciences Georgian SSR, developed a precision method for the radioactivation determination of trace amounts of some metals that are bound by nucleic acids. Subsequently, E. L. Andronikashvili, L. M. Morsulishvili, A. I. Belokobyl'skiy, V. P. Mandzhgaladze, N. Ye. Kharabadze and Ye. Yu. Yefremova studied the question of the binding of some metals by nucleic acids extracted from both normal and sarcomatous tissues. The present article studies six elements: sinc, cobalt, antimony, scandium, silver and iron. It was found that mat DNA under normal conditions contains all the elements except cobalt, with from in first place, antimony second, followed by silver and zinc. The quantity of these elements in DNA molecules extracted from transplanted carcinoma M-1 and carcinosarcoma W-256 tumors increases in practically all cases. Total

USSR

ANDRONIKASHVILI, E. L., Soobshcheniya Akademii Nauk Gruzinskoy SSR, Vol 68, No 2, Nov 72, pp 313-316

RNA molecules under normal conditions, within the sensitivity limits of the radioactivation method, contain no cobalt, iron, silver or scandium, while the sinc and antimony concentration is approximately six times higher than in DNA. In tumor RNAs the zinc and antimony concentrations increase Two- (M-1) and threefold (W-256).

American biochemists (J. P. Slater et al., E. L. Lichti et al) have now found sinc in DNA polymerase molecules and in young collagen molecules. American (H. G. Petering et al.) and West German (U. Weser et al.) scientists have performed animal experiments showing that zinc at certain concentrations plays a special role in stimulating the biosynthesis of nucleic acids (both DNA and RhA).

On the basis of data now available, it is possible to suggest a mechanism for the therapeutic action of ionizing radiation, the result of which is a slow-down in the proliferative growth of the number of celis, in other words suppression of the DNA reduplication and RNA replication process. On the basis of Soviet and American data, it can be regarded as established that metal ions, including zinc ions, play a certain role in these processes. 2/2

- 81 -

ANO040379

UR 9012

TITLE--

ETERNAL RELATIONSHIP

PRAVDA, MARCH 31, 1970, P 6, COLS 1-8 NEWSPAPER--

ABSTRACT- I. N. FRANTSEVICH, DIRECTOR, THE INSTITUTE OF MATERIAL SCIENCE PROBLEMS, MEMBER OF THE UKRAINIAN ACADEMY OF SCIENCES - V. M. TUCHKEVICH, DIRECTOR, THE PHYSICAL-TECHNICAL INSTITUTE, CORRESPONDING MEMBER OF THE UKRAINIAN ACADEMY OF SCIENCES - SPONDING MEMBER OF THE UKRAINIAN ACADEMY OF SCIENCES - L. ANDRONIKASHVILI, DIRECTOR, THE INSTITUTE OF PHYSICS, MEMBER OF THE GEORGIAN ACADEMY OF SCIENCES - I. N. PYSTYNSKIY, HEAD OF A CHAIR, TOMSK INSTITUTE OF RADIOELECTRONICS AND ELECTRUNIC ENGINEER-ING - PARTICIPANTS OF THE "ROUND TABLE" PRAVDA-SPONSORED DISCUSSION, EXPRESS THEIR VIEWS ON THE COLLABORATION BETWEEN SCIENTISTS AND EXPRESS THEIR VIEWS ON THE COLLABORATION BETWEEN SCIENTISTS AND INDUSTRY.

FRANTSEVICH STRESSED THE DESIRABILITY OF DESIGN BUREAUS AND PILOT PLANTS IN THE STRUCTURE OF RESEARCH INSTITUTES.

19741827

AN0040379

TUCHKEVICH ILLUSTRATED HIS POINT BY CITING THE COLLABORATION BETWEEN HIS INSTITUTE, THE ENERGETICS INSTITUTE, AND SOME UNNAMED PLANT ENGINEERS THAT WAS NECESSARY TO DEVELOP A SEMICONDUCTOR FREQUENCY CONVERTER.

ANDRONIKASHVILI MENTIONED A CAPACITANCE-DISCHARGE CHAMBER, DEVELOPED BY HIS INSTITUTE, WHICH CAN COMPETE, IN SOME INSTANCES, WITH THE HYDROGEN BUBBLE CHAMBER.

PUSTYNSKIY CITED THE PTU-8G, AN INSPECTION TV CAMERA, "TELEGLAZ", WHICH WAS MADE BY HIS INSTITUTE ON THE ORDER AND WITH THE ASSISTANCE OF THE INSTITUTE OF MINING OF THE SIBERIAN BRANCH OF THE ACADEMY OF SCIENCES. THE LETTER G IN THE DESIGNATION STANDS FOR "MINING". THE LATEST, THE TENTH "TELEGLAZ", IS THE SMALLEST MODEL WHOSE TV CAMERA IS FITTED IN A METAL CYLINDER 25-MM IN DIAMETER. IN THE FIELD, THE CAMERA CAN BE POWERED BY A 12-VOLT BATTERY. THIS INSTRUMENT WAS ALSO MADE IN THE SHOPS OF THE INSTITUTE. OTHER INSTRUMENTS MADE BY THE TOMSK INSTITUTE OF RADIOELECTRONICS AND ELECTRONIC ENGINEERING HAVE FOUND USES IN AVIATION AND CHEMICAL PLANTS AND THE INSTITUTE OF ATOMIC ENERGY IMENI KURCHATOV.

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19741828

en

UDC 539.4

USSR

ANDRONIKASHVILI, E. L., POLITOV, N. G., PAPERNG, I. H., RAZMADZE, A. K.

"Particularities of the Plastic Flow and Deformation Strengthening of Ionic Grystals"

Khar kov, Fiz. Mekhanizmy Plastich, Deform, pri Nizkikh Temperaturakh --Sbornik (Physical Hechanisms of Plastic Deformation at Low Temperatures --Collection of Works) 1971, p 33 (from Referativnyy Zhurnal, Mekhanika, No 2,
Feb 72, Abstract No 2V1247 by L. I. Mirkin)

Translation: An investigation was made of the influence of irradiation in a reactor, mechanical loading, and cooling upon the properties of crystals. During the stretching of an irradiated crystal, failure takes place prior to the attainment of plasticity due to the high strength of fixation of the dislocations during irradiation. The irradiation of prestressed crystals permits the strength to be increased by a factor of 2, and the plasticity by a factor of 3. On the basis of the example of lithium fluoride crystals it was shown that irradiation fixes structural changes during loading. Louering the irradiation temperature decreases the ultimate strength of nonloaded crystals and does not affect the ultimate strength of crystals under load. Decreasing the temperature to 77°K and x-ray irradiation brings about a threefold increase

USSR

ANDRONIKASHVILI, E. L. ROYNISHVILI, Ye. Yu. and KHECHINASHVILI, N. N., Institute of Physics, Academy of Sciences, Georgian SSR, /bilisi

"Calorimetric Study of the Possibility of Phas Transformations in Biological Tissues at Low Temperatures"

Moscow, Biofizika, Vol 15, No 3, May/Jun 70, pp 484-487

Abstract: The dependence of specific heat on temperature was studied in calf liver and frog muscle by the method of low temperature calorimetry at -196°C to +10°C. Using a preparation of liver and muscle in Earl's solution and glycerine of various concentrations, it is possible to extend significantly the interval of crystallization, and to displace the enset of crystallization of water, however no low-temperature phase transformations were noted in these experiments.

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USSR

ANDRONOV, A. M.

"Short Course in Probability Theory and Mathematical Statistics for Civil Aviation Economics Engineers. Part 2. Mathematical Statistics"

Kratkiy Kurs Teorii Veroyatnostey i Matematicheskoy Statistiki dlya Inzhenerov-ekonomistov Grazhdanskoy Aviatsii. Ch. 2. Matematicheskaya Statistika [English Version Above], Riga Institute of Civial Aviation, 1971, 156 pages (Translated from Referativnyy Zhurnal, Kibernetika, No 3, 1972, Abstract No 3 V166K).

NO ABSTRACT.

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USSR

UDC 669.2:621.746

MOLCHANOV, M. D., BONDAREV, B. I., IVANOV, V. S., KALYAPIN, A. S., PONOMARENKO, A. M., and ANDRONOV A. N.

"Development and Industrial Application of FL10 Flux"

Tsvetnyye Metally, No 3, Mar 71, pp 70-71

Abstract: FL10 flux contains no compounds which react with such alloying elements as zirconium and the rate earth elements, and therefore can be recommended for processing of all magnesium alloys without limitation. The cost of FL10 is 16 rubles less than the cost of FL5 flux.

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- 88

USSR

UDC 669.2:621.746

MOLCHAROV, H. D., BONDAREV, B. I., IVAROV, V. S., KALYAPIN, A. S., PONOMARENKO, A. H., and ANDRONOV. A. N.

"Development and Industrial Application of FL10 Flux"

Tovetnyye Metally, No 3, Mar 71, pp 70-71

Abstract: FL10 flux contains no compounds which react with such alloying elements as sirconium and the rate earth elements, and therefore can be recommended for processing of all magnesium alloys without limitation. The cost of FL10 is 16 rubles less than the cost of FL5 flux.

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USSR

UDC 621.385.032.21.001.5

ANDRONOV, A. N., LEPESHINSKAYA, V. N.

"On the Problem of Destruction of Oxide Films by an Electron Beam"

Moscow, Radiotekhnika i Elektronika, Vol 16, No 10, Oct 71, pp 2005-2006

Abstract: The authors propose a simple phenomenological model of the process of destruction of oxide films under electron bombardment. The proposed scheme elucidates the possible reasons for the disagreements between different researchers in interpreting experimental results on this phenomenon.

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Magnesium

USSR

TDC 869.721:621.774

BONDAREV, B. I., IVANOV, V. S., ANDRONOV, A. N., and DETROVA, G. V.

"Special Features in the Technology of Introducing Zirconium Into Magnasium Alloys"

Moscow, Tsvetnyye Metally, No 6, Jun 70, p 50

Abstract: One of the basic difficulties in the industrial production of magnesium alloys containing zirconium lies in the means for introducing the direction into the melt. Three industrial introduction processes are cited: 1) Introduction of zirconium from calcium fluorozirconate; 2) Introduction from a salt melt containing 66% K2ZrF, 26% LiCl, and 8CaF2; and 3) Introduction from binary and termary alloys. The principal disadvantages of the first two processes are outlined. It was established, during experiments and industrial fusion of VM65-1 alloy in reflecting furnaces of 12 ton capacity, that the best results on zirconium assimilation were obtained with a binary alloy containing 15-20% Zr. A Brief description of the procedure is given. A comparison of results on zirconium assimilation obtained by the above described method and others show that the use of binary Mg-Zr alloy reduces the irreversible metal losses in the melt by 1.5 times.

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2005年2月加州2004年11日,1904年11日,1914年1

UNCLASSIFIED PROCESSING DATE--04DEC70
TITLE--INOCULATING DEFORMABLE MAGNESIUM ALLOYS -U-

AUTHOR-(04)-DETKOVA, O.V., BONDAREV, B.I., IVANOV, V.S., ANDRONDY, A.N.

COUNTRY OF INFO--USSR

SOURCE-TSVET. METAL. 1970, 43(4), 79-80

DATE PUBLISHED ---- 70

SUBJECT AREAS -- MATERIALS

TOPIC TAGS--MAGNESIUM ALLOY, CRYSTAL STRUCTURE, ZINC ALLOY, ALUMINUM ALLOY, MANGANESE ALLOY, SILICON ALLOY, ZIRCONIUM ALLOY, BORON ALLOY, INDCULATION

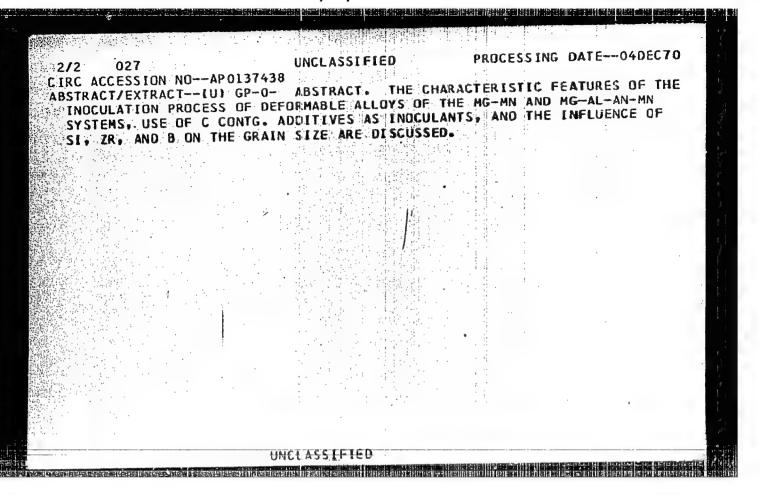
CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3008/0333

STEP NO--UR/0136/70/043/004/0079/0080

CIRC ACCESSION NO--APO137438

UNCLASSIFIED



JISSR-

UDC 616.61-002.151

GRINSHPUN, O. Ya., Col Med Serv, Candidate of Medical Sciences; VAS'KOV, V. G., Lt Col Med Serv; MAKSIMOV, Ye. V., Lt Col Med Serv; ANDRONOV. A. S., Capt Med Serv; MARAKUSHEV, M. I.; KHOMENKO, L. M.; TSEY, A. L.

"Some Clinical Data on Hemorrhagic Nephrosonephritis"

Moscow, Voyenno-Meditsinskiy Zhurnal, No 8, Sep 71, pp 50-51

Abstract: Observation of 17 cases of hemorrhagic nephrosone-phritis (HNN) sporadically occurring in the Transcarpathian Region revealed a typical progress of this disease through three stages. In the first stage, lasting 2-4 days, body temperature rapidly rose to 38-40°C, the patients complained about headache, pain in muscles and joints, and general weakness: they were photophobic, had cutaneous hyperemia in the face and upper trunk, and some developed dry noises in their lungs. An incorrect diagnosis was made in all cases, partly because this disease is very rare in Transcarpathia. In the second stage, lasting 4-8 days, clinical signs characteristic of HNN developed

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USSR

GRINSHPUN, O. Ya., et al, <u>Voyenno-Meditsinskiy Zhurnal</u>, No 8, Sep 71, pp 50-51

in all patients, and the proper diagnosis was established in all. Only four patients had hemorrhagic conjuctiva or nosebleed. All suffered from gastrointestinal disorders and from oliguria (down to 200 ml per day) with hematuria and proteinuria. The third stage -- convalescence -- began on the 9th - 1lth day with the onset of diuresis, which soon reached 6-8 liters per day. Hemorrhages, vomiting, fever, and other discomfort subsided, and the patients regained appetite and thirst. In the initial days of polyuria, concentration of gamma globulins in the protein fraction increased to 27.9%, while plasma potassium decreased to 9.3 mg% and plasma calcium to 6.8 mg%. The patients lost 5-8 kg body weight. The stage of convalescence lasted 2-3 weeks. The treatment was symptomatic, and all patients recovered without complications.

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USSR

UDC: 621.396.626.3

ANDRONOV, I. S. and VORONIN, N. N.

"Noise Immunity of Scattered Reception With Threshold Antenna Switching"

Moscow, Radiotekhnika, No 10, 1972, pp 1-7

Abstract: The interest in scattered reception with threshold antenna switching is explained by the fact that no increase in receiver and demodulation equipment is required to realize this method. Asserting that other investigators have not understood the noise immunity of which this method is capable, the authors provide an analysis of this immunity in an actual circuit of scattered reception with antenna switching in several cases of practical interest. Especial attention is given to the noise immunity in the reception of binary signals, orthogonal in the amplified sense of the term, with active pauses, in statistically uniform and nonuniform scattering and with Rayleigh-independent fading. The effect on the immunity of the amplitude of the threshold level is also examined. For the purposes of the analysis, the authors use the mathematical model of the k-th antenna signal for the duration of one signal element. It is assumed that the period of the antenna switching is 1/2

USSR

'AMDRONOV, I. S., et al, Radiotekhnika, No 10, 1972, pp 1-7

a multiple of the signal element duration and that the switching is synchronous with the first element of the signal that arrives. The authors find that under real conditions, this method of reception permits increased noise immunity at low additional expense for equipment.

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- 6 -

Thin Films

USSR

UDC 539.4.019.3

AEDRONOV, V. M., and BAZYURA, R. I., Kharkov

"Measurement of Internal Friction in Very Thin Films"

Moscow, Fizika i Khimiya Obrakotka Materialov, No 4, Jul-Aug 73, pp 146-149

Abstract: Experimental results are presented from measuring the internal friction in thin copper films in relation to their thickness where measurement were made on films less than 1000 % thick using the lateral vibrations from a permanent magnetic field in the kilohertz region. These measurements showed that film strength diminishes with increased thickness while initial strain increases with increased thickness. Mathematical expressions are presented which were used to calculate inductive emf, and a diagram of the apparatus used to measure internal friction is shown. Three figures, three hibliographic references.

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UNCLASSIFIED PROCESSING DATE--27NOV70
TITLE--THE STRESS-STRAIN DIAGRAM AND INTERNAL FRICTION OF COPPER WHISKERS
UNDER UNIAXIAL EXTENSION AND A NEW METHOD OF STUDY -UAUTHOR-(03)-RABUKHIN, V.B., PINES, B.YA., ANDRONDY, V.M.

COUNTRY OF INFO--USSR

SOURCE--FIZIKA METALLOV I METALLOVEDENIE, FEB. 1970, 29, (2), 436-439

DATE PUBLISHED----70

SUBJECT AREAS--PHYSICS, MATERIALS

TOPIC TAGS--STRESS ANALYSIS, YIELD STRESS, HARMONIC OSCILLATION, TENSILE STRESS, INTERNAL FRICTION, CRYSTAL DISLOCATION, COPPER WHISKER

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY RELL/FRAME--3003/0343

STEP NO--UR/0126/70/029/002/0436/0439

CIRC ACCESSION NC--AP0129575

UNCLASSIFIED

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UNCLASSIFIED

PROCESSING DATE---27NOV7O

CIRC ACCESSION NO--APO129575

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. A NEW EXPERIMENTAL METHOD OF STUDYING THE STRESS-STRAIN DIAGRAM OF CU WHISKERS AND DETERMINING THEIR YIELD CHARACTERISTICS IS DESCRIBED. IN THIS METHOD THE ELASTIC STRESSES IN THE MATERIAL ARE DETERMINED BY ANALYSING THE RESONANCE FREQUENCY OF TRANSVERSE OSCILLATIONS SET UP IN THE STRETCHED SAMPLE. ONE NOTEWORTHY FEATURE IS THAT AT THE INITIAL STAGE OF EASY SLIP THE INTERNAL FRICTION REMAINS APPROX. CONSTANT, INDICATING THAT AT THIS STAGE A LARGE PROPORTION OF THE DISLOCATIONS FORMED PASS OUT OF THE CRYSTALS.

USSR

UDC 621.762.2(088.8)

ANDRONOV, V. P.

"A Method for the Granulation of Metals and Alloys"

USSR Author's Certificate No 253090, filed 27 Aug 66, published 24 Feb 70, (from RZh-Metallurgiya, No 11, Nov 70, Abstract No 116330 P)

Translation: A method is proposed for the granulation of metals and alloys by teeming molten metal into a tank with coolant from a melting crucible through a calibrated aperture. To increase the granulator efficiency and capacity, the molten metal is teemed into the tank with coolant at a temperature which exceeds the melting temperature by 20-40°.

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USSR

UDC 534

ANDRONOV, V. V., Moscow

"The Moving of a Body on a Rough Inclined Plane Performing Forward Transverse Vibrations in Its Plane"

Moscow, Izvestiya Akademii Nauk, Mekhanika Tverdogo Tela, No 3, May-Jun 72, pp 7-14

Abstract: The vibration moving of a body on a plane with purely transverse vibrations is analyzed on the model of a mass point moving on a rough inclined plane performing forward transverse vibrations. Such problems of vibration moving arise by vibrational intrusion, vibrational cutting, and vibrational insertion of shells. The solutions are based on the analysis of the system of equations of motion of a body moving on a plane in time intervals. The discussion includes the case of kinematically given transverse motion, the general case of motion with restriction to determined motions and the solution of the average dislocation speed of the vibration, and the special case of given speed of transverse motion and instantaneous standstills. Graphs of periodic solutions of a simplified equation of motion demonstrate the effect of an inertia factor δ on the character of periodic motions and the magnitude of the error of the average speed of motion determined from derived approximation formulas. Two illustred, thirty seven formulas, six biblioe refs.

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USSR

UDC 778.534.83

CHERKASOV, Yu. A., Candidate of Sciences, KISLOVSKIY, I. L., ANDRONOV, V. V. LYUBIN, V. M., Candidate of Sciences, AND FEDOROVA, Ye. I.

"Electrophotographic Spectrovisor for the Visible Area of the Spectrum Based on Recording Vidicon"

Optiko-mekhanicheskaya Promyshlennost', No 10, 1971, pp 28-32.

ABSTRACT: Results are presented from a study of the parameters of an electrophotographic spectrovisor, based on a recording vidicon. The spectrovisor can be used for observation and recording of spectrograms and photomicrograms in the visible area in a periodic mode at 25 frames per second and in the time integration mode with a resolution of 25 mm⁻¹ and a sensitivity of up to 200 state standard units. The method of visualization of spectra is based on recording of an optical image by a recording photoconductive layer, so that the optical image is converted to the corresponding potential relief with subsequent visualization.

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USSR

UDC 621.578.33

ANDRONOVA, I.A., KHANDOKHIN, P.A. [Scientific-Research Radiophysics Institute]

"Investigation Of The Effect Of A Magnetic Field On The Characteristics Of A Ring Laser At A 3.39 Micron Nave Length"

Izv. VUZ: Radiofizika, Vol XV, No 5, May 72, pp 703-712

Abstract: The paper is concerned with a theoretical consideration of the effect on certain characteristics of lasers of various configurations (linear, triangular, quadrangular) of a longitudinal magnetic field which is superimposed on an active medium. The calculations were primarily made in order to determine the polarization effects in lasers with an arbitrary anisotropy of losses (in particular with the presence of a Brewstor window) and also the effect of frequency drift and frequency splitting in triangular lasers. In addition a corresponding experimental study was made with a He2-Ne20 laser with a triangular resonator at a 3.39 micron wavelength. The theoretical and experimental results are in good agreement. Faring supply of the magnetic field, elimination of the competition region was observed. The authors thank I.L. Bershteyn for useful discussion of the work. 4 fig. 15 ref. Received by editors, 10 September 1971.

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USSR

VDC 911.3.613.11

NEVEROVA, N. P., and ANDRONOVA, R. I.

"Cholinesterase Activity During Human Acclimatization in the Arctic"

V. sb. Akklimatiz. i krayev, patol. cheloveka na Severe (Acclimatization and Regional Pathology of Man in the Far North-collection of works), Arkhangel'sk, 1970, pp 126-128 (from RZh-36. Meditsinskaya Geografiya, No 1, Jan 71, Abstract No 1.36.50 by T. Koretskaya

Translation: A total of 198 workers were studied; all came from the central zone of the USSR. During the polar night (January), cholinesterase activity was 2-2-1/2 times higher than normal — it was 13.5 min. or 44-100 units. Data was the same for the polar day. The extreme of cholinesterase activity was noted at air temperatures of -14°C, -20°C, and -28°. The character and direction of the field of enzyme distribution indicates a nonlinear correlation. The same relationship was observed between cholinesterase activity and atmospheric pressure. A linear relationship was found between change of cholinesterase activity and air humidity. There was a small degree of correspondence between cholinesterase activity and wind speed.

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USSR

VDC 911.3.613.11 (98)

ANDRONOVA, T. I., and NEVEROVA, N. P.

"The Effect of Transpolar Climate on Red and White Blood Cell Systems during Initial Acclimatization Periods for Man"

V sb. Akklimatiz. i krayev. patol. cheloveka na Severe (Acclimatization and Pathology of Man in the Far North--collection of works), Arkhangel'sk, 1970, pp 11-13 (from RZH-36. Meditsinskaya Geografiya, No 1, Jan 71, Abstract No 1.36.49 by V. Zhadovskaya)

Translation: Data is presented on the composition of red and white blood cells during the polar night and polar day in young workers three months after arrival in the Far North. The first examination, 3-7 days after arrival, showed no deviation from normal. Acclimatization during the polar night was accompanied by an increase in hemoglobin and erythrocyte levels, while reticulocytes remained constant or even slightly decreased. Acclimatization during the polar day showed some decrease in hemoglobin; erythrocyte count was unchanged; and reticulocytes decreased. White blood cell changes during the polar day included some decrease in the leukocyte count with relative increase in lymphocyte level. During the period of the polar night, the leukocyte count increased with relative decrease in the percentage of lymphocytes.

USSR

UDC 621.396.6-181.48

ANDROSHCHUK, A. F., VASIL'YEV, YU. P., STAVROVICH, N. V.

"Prospects for Creating Thin-Film Rhenium Resistor Microcircuits"

Tr. VNII elektroizmerit. priborov (Works of the All-Union Scientific Research Institute of Electrometering Devices), 1971, No 10, pp 108-114 (from RZh-Radiotekhnika, No 7, Jul 72, Abstract No 7V297)

Translation: A study was made of the time stability of thin-film rhenium resistors with a specific resistance of 100 ohms/square. The optimal conditions for depositing the rhenium on the UVN-2N-1 device are developed. The prospects for utilizing rhenium as the material for manufacturing thin-film highly stable resistor microcircuits based on it is proved experimentally.

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- 54 -

"APPROVED FOR RELEASE: 08/09/2001

CIA-RDP86-00513R002200210001-3

: 11

1/2 032

UNCLASSIFIED

TITLE--COMBUSTION OF CALCIUM -U-

PROCESSING DATE--04DEC70

AUTHOR-ANDROSOV. M.K.

CCUNTRY OF INFO--USSR

SOURCE--KHIM. SHK. 1970, 25(2), 88

DATE PUBLISHED----70

SUBJECT AREAS--PROPULSION AND FUELS, CHEMISTRY

TOPIC TAGS--COMBUSTION, CALCIUM, CALCIUM CARBIDE, CHARCOAL, IGNITION, POTASSIUM NITRATE, SODIUM NITRATE

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED

PROXY FICHE NO---- 7070/605017/F02 STEP NO--UR/0509/70/025/002/0088/0088

CIRC ACCESSION NO--APO140768

- UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--04DEC

2/2 032 UNCLASSIFIED PROCESSING DATE--04DEC

CIRC ACCESSION NO--APO140768

ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE COMBUSTION OF CA CAN BE
ACCOMPLISHED WITH RELATIVE EASE BY DIPPING A CLEANED PIECE OF CA IN A
MELT OF KNO SUB3 OR NANO SUB3 BEFORE PLACING IT IN THE BURNER FLAME. CA
MELT OF KNO SUB3 OR NANO SUB3 BEFORE IGNITION.

BETWEEN PIECES OF CHARCOAL BEFORE IGNITION.

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USSR

UDC: 547.26'118.07

KHARIT, Ya. A., LAVLIN, P. M., SHVARTS, A. S., ANDROSOV, V. F., ZAMORA, V. A., KOROTKAYA, L. I., Leningrad Institute of the Textile Industry and light Industry imeni S. M. Kirov

"A Method of Producing Polyphosphonates"

Moscow, Otkrytiya, Izobreteniya, Promyshlennyye Obraztsy, Tovarnyye Zmaki, No 26, 1970, Soviet Patent No 278692, Class 12, filed 23 May 69, p 24

Abstract: This Author's Certificate introduces: 1. A method of producing polyphosphonates of the formula

$$(O-CH_2CH_2NHP - O)_{\pi}$$

in ≈ 6. As a distinguishing feature of the patent, disthylamideanilide of approximation of the goal product by conventional methods. 2. A modification of the goal product by conventional methods. 2. A modification of the goal gradual that the process is carried out at a temperature of the goal product that the process is carried out at a temperature of the goal gradual product that the process is carried out at a temperature of the goal gradual product that the process is carried out at a temperature of the goal gradual product that the process is carried out at a temperature of the goal gradual product by the fact that the process is carried out at a temperature of the goal gradual product by the fact that the process is carried out at a temperature of the goal gradual product by the fact that the process is carried out at a temperature of the goal gradual product by the fact that the process is carried out at a temperature of the goal gradual product by the fact that the process is carried out at a temperature of the goal gradual product by the fact that the process is carried out at a temperature of the goal gradual product by the fact that the process is carried out at a temperature of the goal gradual product by the fact that the process is carried out at a temperature of the goal gradual product by the fact that the process is carried out at a temperature of the goal gradual product by the fact that the gradual product by th

1/2 018 UNGLASSIFIED PROCESSING DATE--04DEC70
TITLE--ELECTROKINETIC POTENTIAL OF A POLYACRYLONITRILE FIBER MODIFIED WITH
HYDRAZINE HYDRATE -U-

AUTHOR-(05)-ANDROSOV, V.F., ANDREYEVA, K.I., BONDARENKO, V.S., ZHARKOVA,

COUNTRY OF INFO--USSR

SOURCE--KHIM. VOLOKNA 1970, (2), 28-30

DATE PUBLISHED ----- 70

SUBJECT AREAS--MATERIALS

TOPIC TAGS--POLYACRYLONITRILE FIBER, HYDRAZINE HYDRATE, PHYSICAL CHEMISTRY PROPERTY, TRANSITION TEMPERATURE, ELECTRIC POTENTIAL

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRANE--3005/0043

STEP NO--UR/0183/70/000/002/0028/0030

CIRC ACCESSION NO--APO132338

UNCLASSIFIED

2/2 018 UNCLASSIFIED PROCESSING DATE--04DEC70
CIRC ACCESSION NO--AP0132338
ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. POLYACRYLONITRILE (I) FIBERS,
TREATED WITH AQ. N SUB2 H SUB2 O SOLN., FOLLOWED BY HEAT
TREATMENT UNDER N, ACQUIRED NEW PHYSICOCHEM. PROPERTIES. THE
ELECTROKINETIC POTENTIAL (ZETA) AND GLASS TRANSITION TEMP. OF THE
MODIFIED I FIBERS WERE PROPORTIONAL TO THE HEAT TREATMENT TEMP. A
METHOD WAS PROPOSED FOR THE DETN. OF THE DEGREE OF CROSSLINKING FROM THE
RELATIVE CHANGE IN ZETA. FACILITY: LITLP IM. KIROVA, LENINGRAD,
USSR.

UNCLASSIFIED

UNCLASSIFIED PROCESSING DATE--04DEC70
-UAUTHOR-(02)-ANDROSOV, V.F.. BONDARFNKO. V.S

COUNTRY OF INFO--USSR

SOURCE--DEUT. TEXTILTECH. 1970, 20(5), 283-5

DATE PUBLISHED----- 70

SUBJECT AREAS--MATERIALS

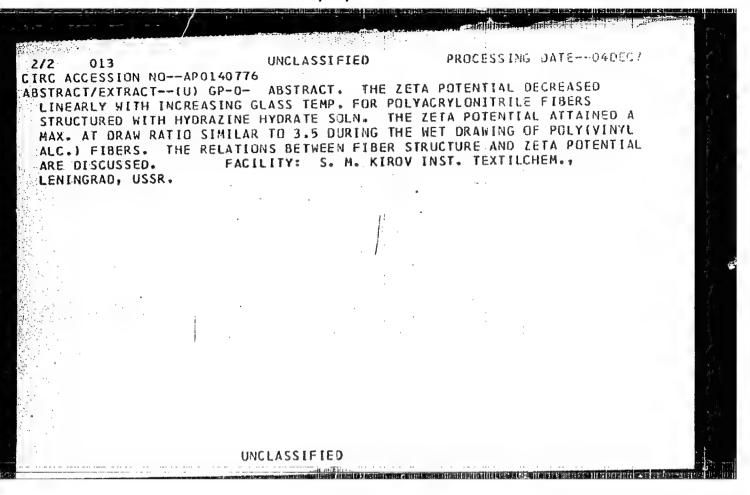
TOPIC TAGS--POLYACRYLONITRILE FIBER, POLYVINYL ALCOHOL FIBER, POLYMER

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY FICHE NO---FD70/605017/F06 STEP NO--GE/0043/70/020/005/0283/0285 CIRC ACCESSION NO--A20140776

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1/2 046 UNCLASSIFIED PROCESSING DATE--27NOV70
TITLE--POSSIBILITY OF STUDYING POLYMER STRENGTH BY MEANS OF POLARIZATION
INFRARED SPECTROSCOPY -U-

AUTHOR-(04)-SAVITSKAYA, A.N., KLIMENKO, I.B., VOLF, L.A., ANDROSOV, V.F.

COUNTRY OF INFO--USSR

SOURCE--VYSOKOMOL. SOEDIN., SER. A 1970, 12(4), 790-3

DATE PUBLISHED ---- 70

SUBJECT AREAS -- CHEMISTRY, MATERIALS

TOPIC TAGS--TENSILE STRENGTH, PLASTIC FILM, ACTIVATION ENERGY, OPTIC PROPERTY, POLYVINYL ALCOHOL, PYRROLIDINE, KETONE, COPOLYMER, CHEMICAL DECOMPOSITION, PLASTIC DEGRADATION, IR SPECTRUM, SPECTROSCOPIC ANALYSIS

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS--UNCLASSIFIED PROXY REEL/FRAME--3006/1255

STEP NO--UR/0459/70/012/004/0790/0793

CIRC ACCESSION NO--APO134929

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CIRC ACCESSION NO--APO134929

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. THE DICHPOISM OF THE BAND AT 916

CM PRIME NEGATIVE! PLOTTED VS. ORIENTEO DRAWING FOR POLYMER FILMS

INDICATED THAT POLY(VINYL ALC.) (I) AND I POLY(VINYLPYRROLIDINONE)

MIXTS. HAD A SIMILAR DICHORISM, WHEREAS WINYL ALC. N VINYL PYRROLIDINONE

MIXTS. HAD A SIMILAR DICHORISM, WHEREAS WINYL ALC. N VINYL PYRROLIDINONE

COPOLYMER (II) HAD A SLIGHTLY LOWER VALUE. THE ACTIVATION ENERGY OF

DEGRADATION WAS ESSENITALLY THE SAME FOR THE 3 POLYMERS, WHILE THE

STRUCTURE SENSITIVE COEFF. OF II WAS MARKEDLY HIGHER THAN THAT OF I.

THE TENSILE STRENGTH OF THE POLYMERS CAN BE QUAL. EVALUATED FROM THE

DICHROISM OF THE CORRESPONDING BANDS. FACILITY: LENINGRAD.

INST. TEKST. LEGROI PROM. IM. KIROVA, LENINGRAD, USSR.

UNCLASSIFIED

USSR

UDC: 621.396.69:621.372.412

ANDROSOVA, V. G., BIRYUKOV, V. I.

"An AT-Section Quartz Piezoelectric Element"

USSR Author's Certificate No 267703, filed 18 Apr 68, published 8 Jul 70 (from RZh-Radiotekhnika, No 1, Jan 71, Abstract No 1V352 P)

Translation: This Author's Certificate introduces an AT-section quartz piezoelectric element made in the form of a rectangular plate which is longer in the direction of the X-axis of the crystal. To suppress side resonances, the length of the piezoelectric element is related to the thickness by the following expression:

$$l_x = 1.61Sn + 2.576S$$
,

where l_x is the length of the piezoelectric element, S is the thickness of the piezoelectric element, and n is a whole number.

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210001-3"

USSR



UDC 621.373.421.13:621.372.412

ANDROSOVA, V. G., BIRYUKOV, V. I., POZDNYAKOV, P. G.

"Quartz Resonators with AT-Cut Piezoelements of Rectangular Shape"

Elektron, tekhnika. Nauchno-tekhn. sb. (Electronic Engineering. Scientific and Technical Collection), 1970, ser 9, vyp. 2, pp 33-39 (from RZh-Radio-tekhnika, No 9, Sep 70, Abstract No 9D278)

Translation: This article contains the results of investigations of the shape of the oscillations of rectangular AT-cut piezoelements and also the distribution of bias with respect to their surface. The arrangement of the minimum bias points attachment at which introduces insignificant damping are determined. The possibilities of selecting the relations of the dimensions of the piezoelements and their effect on the spectral and temperature characteristics are discussed. Results of measuring the resonator parameters with wire attachment confirming the possibilities of a significant improvement in the resonator parameters on frequencies below 1,000 kilohertz are presented. There are eight illustrations and a five-entry bibliography.

1/1

- 131 -

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Soviet Inventions Illustrated, Section II Electrical, Derwent,

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243706 THE PHASE OF SIGNALS CONTROL CIRCUIT has oscillator (1) synchronizes the frequency of oscillators (2) and (3). Part of the power of oscillator (3), through phase shifter (4), goes to detector (5) which receives also reference signal from oscillator (2). On the output of phase detector appears the signal of error which, through compensation element (6), passes to unit (7) which adjusts reactance of oscillating circuit of oscillator (3) in such a way that the difference in phases on outputs of oscillators (2) and (3)

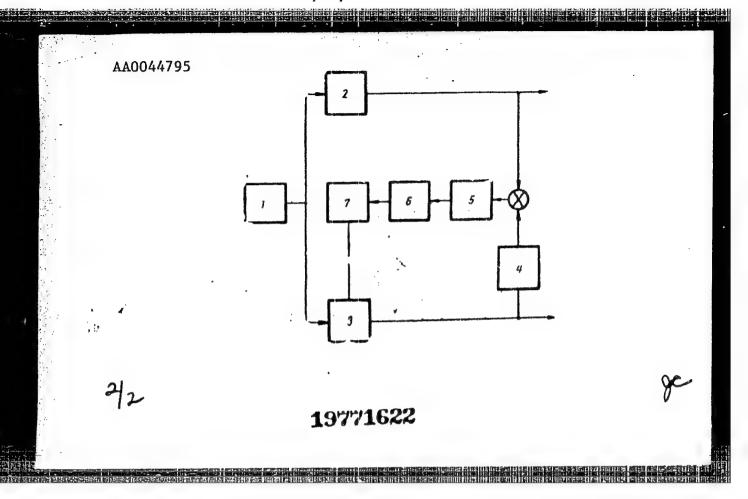
will be equal to the shift of phase produced by phase shifter (4).
17.11.67 as 1198059/26-9. N.G.ANDROSYUK & A.A.
RYANOLOV (8.10.69.) Bul 17/14.5.69. Class 21e.
Int.Cl.G Ol r.

AUTHORS:

Androsyuk, N. G.; Ryapolov, A. A.

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USSR

UDC 632.95

BABIN, Ye. P., SKAVINSKIY, Ya. P., ANDRUKHOV, N. A., SEDLOVA, I. N., LITOSHENKO, N. A., and RUDAVSKIY, V. P.

"Chlorination of Diphenyl Ether and Its Derivatives"

Khim. tekhnologiya. Nauch.-proizv. sb. (Chemical Technology. Science-Production Collection), No 3 (69), 1973, pp 48-49 (from RZh-Khimiya, No 22, 25 Nov 73, Abstract No 22N571 by D. Z. Levin)

Translation: Sulfides of metals with variable valence or mixtures of Sb₂S₅ and Io are used as a catalyst to chlorinate Ph₂O and (MeC₆H₄)₂O. Example. Ph₂O and 0.3% Sb₂S₅ are loaded into a reactor and Cl₂ is supplied at 70-800 for 4 hours at the rate of 30 g/hour. Tetrachlorodiphenyloxyide is obtained, boiling point 155-70/5. Heptachlorodiphenyloxide, FeS, 111-3 are obtained in a similar fashion (the substance, catalyst, and boiling point in OC are given); octachloro-4, 4'-ditolyl ether, FeS, 192-4 (ethyl alcohol); w,w,w,w',w',w'-hexachloro-ditolyloxide, PCl₅, -;w,w,w,w',w',w'-hexachloro-2,2'-dichloroditolyl ether, Sb₂S₅, 300 (decomposition); trichloro-4,4'-dicarboxydiphenyloxide, -, 259-61; pentachloro-4,4'-dicarboxydiphenyloxide, I₂ + H₂SO₄, 192-3; octachloro-4, 4'-dicarboxydiphenyloxide, H₂SO₃ + I₂, 268-70. These chloro derivatives are used as synergistic additives in herbicides, insecticides, and nematocides.

Acc. Nr:

AP0044608

Ref. Code: UR 0497

PRIMARY SOURCE:

Klinicheskaya Meditsina, 1970, Vol 48,

1 . PP 79-83 Nr

RADIOISOTOPE SCANNING IN THE DIAGNOSIS OF ECHINOCOCCOSIS OF THE LIVER

> A. I. Andrukovich, L. T. Aryamkin Summary

Radioisotope scanning of the liver was carried out in 196 patients with symptoms of hepatomegalia. Echinococcosis of the liver was revealed in 36 persons. Hydatic form of the parasite was seen in 16, alveolar — in 20 patients. In all the cases the scannogram showed a typical picture of extensive defect of isotope absorption at the site of tumor localization with a marked symptom of shollows liver. For the purpose of early diagnosis of affections of the liver with ochinococcus the authors recommend to conduct scanning of the liver in all patients admitted into hospitals with symptoms of hepatomegalia.

REEL/FRAME

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APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210001-3"

1/2 018 UNCLASSIFIED PROCESSING DATE--090CT70
TITLE-A MIGHTY ACCELERATOR OF THE SCIENTIFIC TECHNICAL PROGRESS -U-

AUTHOR-(05)-ANDRUNAKIYEVICH, V., GONTSA, M., ZAYTSEV, G., GAMETSKIY, A.,

CHEBUTARU, A.

COUNTRY OF INFO-USSR

SOURCE-SOVETSKAYA MOLDAVIYA, JULY 2, 1970, P 2

DATE PUBLISHED-02JUL70

SUBJECT AREAS--ELECTRONICS AND ELECTRICAL ENGR.

TOPIC TAGS--COMPUTER R AND D. COMPUTER CENTER, ELECTRONIC COMPUTER/(U)BESM 4 DIGITAL COMPUTER, (U)M20 COMPUTER, (U)M220 COMPUTER, (U)BESM 3M COMPUTER

CONTROL MARKING--NO RESTRICTIONS

DOCUMENT CLASS—UNCLASSIFIED PRUXY REEL/FRAME--1992/0812

STEP NO--UR/9021/70/000/000/0002/0002

CIRC ACCESSION NO--ANOLI1995

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PROCESSING DATE--0900170 UNCLASSIFIED 2/2 -018 CIRC ACCESSION NO--ANOII11995 ABSTRACT/EXTRACT--(U) GP-0- ABSTRACT. THE FIVE ARTICLES PUBLISHED UNDER ONE TITLE ARE DEALING WITH THE STATE OF THE COMPUTER ART IN THE MOLDAVIAN REPUBLIC IN GENERAL, AND THE COMPUTATION CENTER OF THE MOLDAVIAN ACADEMY OF SCIENCES IN PARTICULAR. SOME TIME DURING 1970, THE COMPUTATION CENTER ACQUIRED A BESM 4 ELECTRONIC COMPUTER. IT IS THE SECOND GENERATION TRANSISTORIZED COMPUTER WITH THE MEMORY CAPABLE OF STORING 8:000 NUMBERS. IN ADDITION IT HAS THE EXTERNAL MEMORY CAPACITY CONSISTING OF 8 MAGNETIC DRUMS AND 4 MAGNETIC TAPES WITH THE TOTAL STORAGE CAPACITY OF 4,131,072 NUMBERS. THE COMPUTER CAN PERFORM 20,000 OPERATIONS PER SECOND AND HAS A LIBRARY OF STANDARD PROGRAMS WHICH WERE COMPILES FOR M-20, BESM 3M, AND M 220 COMPUTERS.

UNCLASSIFIED

USSR UDC: 519.48

ANDRUNAKIYEVICH, V. A., Academician of the MSSR Academy of Sciences, and RYABUKHIN, Yu. M.

"Torsion in Algebras"

· Moscow, Doklady Akademii Nauk SSSR, 11 January 1973, pp 265-268

Abstract: Torsion theory, the theory of ideally hereditary radicals, is now being developed for rings, moduli, and algebras over primarily parallel fields. For the purpose of considering these various examples simultaneously, the authors of the present paper select as basically algebraic a system which is not necessarily associative, over an associative ring with identity. It is proved that the torsions form a complete distributive grid. The authors note that this same result was obtained in a recent paper (P. L. Snider, Pacific J. Math., 40, No 1, 1972, p 207) for the particular case of associative rings. They find that torsions, like radicals, are often specified by an indication of the corresponding radical or semiordinary class, and they develop two theorems which characterize radical and semiordinary classes. These theorems can be extended to cover much more general classes of algebraic systems, including Ω groups.

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MACHYULIS, A. U., MESSYTCHYUS, P. P., ANDROMAVICHOUS, L. P., MICHAELTY, E. T., and RERLIN, A. A.

"The Effect of Stabilization and Thermal Treatment on the Ablation of Phonol-Formaldehyde Plastics"

Moscow, Plasticheskiye Massy, No 3, 1972, No 53-56

MACHYULIS, A. N., et al., Plasticheskiye Massy, No 3, 1972, pp 53-56 stabilized with PCB. Higher temperatures lead to formation of crueks, weight loss and poorer physical-mechanical properties.

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USSR

ANDRUS, T. I., BAZILENKO, O. K.

"Study of Single-Channel Queueing System with Blocking of Free Source"

Materialy Seminara po Kibernet. AN MoldSSR, Mold Territor. Gruppa Nats. Kom. SSSR po Avtomat. Upr. [Materials of Seminar on Cybernetics, Acad. Sci. MoldSSR, Moldavian Territorial Group of National Committee of USSR on Automatic Control], 1972, No 46, pp 24-41 (Translated from Referativnyy Zhurnal, Kibernetika, No 3, Moscow, 1973, Abstract No 3 V71 by I. Kovalenko).

Translation: The functioning is studied of a queueing system with a finite number of sources of requests. There is an "accessibility interval," outside of which servicing of requests received from given sources is impossible. The author studies varieties of such a system, in the first of which each source sends only one request, while in the second each source sends several requests and in the third the reserve of requests is unlimited. The expediency is studied of dividing the interval of accessibility into subintervals with corresponding division of the set of sources of requests. The analytic prerequisites accepted by the author allow the system to be studied by the method of restoration processes.

APPROVED FOR RELEASE: 08/09/2001 CIA-RDP86-00513R002200210001-3"

USSR UDC: 543.51

SHKURDODA, V. F., Candidate of Technical Sciences; SAMOBROD, V. V., ANDRUSENKO. A. A., and DOLYA, V. N., Engineers

"A Manufactured Monopolar Type MKh-7301 Spectrometer"

Moscow, Pribory i sistemy upravleniya, No 6, 1972, pp 42-43

Abstract: The Sumy Plant for Electronic Microscopes has designed a monopolar mass spectrometer, type HKh-7301, for mass production. N. N. Bagrov, A. A. Guslyakov, and A. G. Furmanskiy were the men primarily responsible for the design of the industrial version of this instrument, which was constructed for dealing with problems involving the analysis of residual gases in vacuum systems, gas separation and the determination of leakages in high vacuum, the efficiency of evacuation in systems, the control of residual gases in technical procedures such as vacuum sputtering of thin films, vacuum alloying, and the like. A block diagram and a photograph of the instrument are presented together with a list of its technical characteristics and a sample mass spectrograph of residual gases. The instrument itself is discussed and its theory explained. The device has both automatic and manual scanning, and its resolving power and mass range can be varied within certain limits. 1/1

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USSR

UDC 621.396.677

ALONINA, A. I., ANDRUSENKO, A. M., SIDORENKO, B. G.

"Lattice-Type Arrays on Dielectric Substrates"

Radiotekhnika. Resp. mezhved. temat. nauch.-tekhn. sb. (Radio Engineering. Republic Interdepartmental Thematic Scientific and Technical Collection), 1972, vyp. 20, pp 127-131 (from RZh-Radiotekhnika, No 6, Jun 72, Abstract No 6B35)

Translation: The method of direct summation of multiple reflections was used to obtainvalues of the reflection and transition coefficients in the form of infinite series for the structure comprising two lattice-type arrays each of which is arranged on a dielectric layer. The solution is correct for the case of the long-wave approximation (the period of each array is less than the wavelength), and the spacing between the dielectrics exceeds the distance at which the harmonics damp by c times. By using the previously developed procedure, the infinite series are contracted. The amplitude and polarization characteristics of the investigated structure were calculated on a computer as a function of the parameters of the structure. The results are presented in the form of graphs. There are 2 illustrations and a 4-entry bibliography.

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USSR

UDC: 535.818.9

ADONINA, A. I., ANDRUSENKO, A. M., and SLYUSARSKIY, V. A.

"Prism Polarizers"

Kiev, Izvestiya VUZ--Radioelaktronika, Vol 14, No 1, 1971, pp 61-66

Abstract: In this paper, the authors consider the problem of the passage of an electromagnetic wave through a Dove/transliteration uncertain) prism or Fresnel rhombus with the multiple reflections taken into account. For the computations, they use the method of direct summation of the multiple reflections. The assumption is made that the cross section of the electromagnetic wave beam incident on the face of the prism or rhombus is much smaller than the area of that face. Dimensions of the device to be investigated are chosen such that the incident beam undergoes an integral number of reflections from the device's upper and lower bounds, with the beam in the Dove prism undergoing an odd number of reflections and the beam in the Fresnel rhombus undergoing an even number. The case in which the wave incident on the face of the device has a definite polarization is examined. Theoretical computations of the basic characteristics of elliptically polarized waves were made on an electronic computer.

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USSR UDC: 621.371

ANDRUSEVICH, L. K., KARFOV, V. N., and SHEYNMAN, D. I.

"Apparatus for Investigating Amplitude Probability Distribution and the Phase of Radio Signals Combined"

Moscow, Pribory i Tekhnika Eksperimenta, No. 3, 1971, pp 118-119

Abstract: A combined investigation of the fluctuations of phase and amplitude of short-wave signals in the ionosphere provides an insight to the physics of the signal fluctations and permits estimating the potential noise immunity of phase-manipulated systems. The equipment described in this article for making such an investigation can obtain the conditional amplitude probability distributions and phase directly in the process of measurement. The block diagram of this apparatus is given, and its operation described. A separate block diagram of the phase fluctuation meter is also shown, together with a graph illustrating its operation. The authors express their gratitude to A. N. Shilovskiy for his assistance. They are associated with the Novosibirsk Electrotechnical Institute.

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USSR

ANDRUSHAYTIS, G. P., Director, Institute of Biology, Academy of Sciences
Latvian SSR

"The Effect of Pesticides on the Environment"

Riga, Izvestiya Akademii Nauk Latviyskoy SSR, No 4, 1972, pp 44-49

Abstract: The use of DDT was prohibited in the Latvian SSR in 1966, i. e., earlier than in any other country of the world. At present apprehension is aroused by the accumulation of pesticides in bodies of water, including marine bodies such as the Baltic Sea. The toxicity of water to living beings (hydrotoxicology) is being subjected to study from this standpoint. Extensive studies in this field are being conducted at the Institute of Biology, Academy of Sciences Latvian SSR. The content of DDT and PTsB in fresh tissues and fat of flounder, herring, salmon, and cod from the Baltic Sea was determined. The action of 2,4-D on the metabolism of mitochondria isolated from fish liver was investigated. It was established that the mitochondria were sensitive to the action of this herbicide already in a concentration of 10-4 M and that complete dissociation of oxidative phosphorylation was produced by it in a concentration of 2-3 X 10-3 M. As distinguished from dinitrophenol, 2,4-D suppressed not only oxidation associated with phosphorylation, but also free 1/2

USSR

ANDRUSHAYTIS, G. P., Izvestiya Akademii Nauk Latviyskoy SSR, No 4, 1972, pp 44-49

oxidation. 2,4-D produced swelling of mitochondria that could not be reversed by ATP or serum albumin. It was established that the action of 2,4-D on mitochondria was due to a breaking up of lipoprotein membranes and to the freeing of fatty acids from phospholipids. In cooperation with scientists at the Institute of Experimental Biology, Polish Academy of Sciences, the effect of 2,4-D on the consumption of 0_2 by the plankton copepods Sinocephalus vetulus was studied. A microrespirometric procedure based on the principle of Cartesian floats was applied, which was developed by the Polish scientists and makes it possible to determine with a precision reaching 10^{-6} ml the use of 0_2 by individual small animals. The respiration of S. vetulus was inhibited by 2,4-D beginning with a concentration of 2.5 X 10^{-3} M and then became stabilized at 7.5-15 X 10^{-3} M because of the action of a compensating mechanism. It was also established that 2,4-D inhibits the embryogenesis of the fish Misgurnus fossilis. By using the method of Cartesian floats, the effect of 2,4-D on respiration in the early stages of embryogenesis of M. fossilis is being studied.

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1/2 036 UNCLASSIFIED PROCESSING DATE--300CT70

TITLE--TWO QUANTUM BENZOYL CHLORIDE PHOTOSENSITIZED CROSSLINKING OF

AUTHOR-(04)-ANDRUSHCHENKO, D.A., KACHAN, A.A., CHERNYAVSKIY, G.V., SHRUBOVICH, V.A.

CCUNTRY OF INFO--USSR

SOURCE--KHIM. VVS. ENERG. 1970, 4(2), 169-70

DATE PUBLISHED ---- 70

SUBJECT AREAS--CHEMISTRY

TOPIC TAGS--POLYMER CRGSS LINKING, POLYTHYLENE, CHLORINATED ORGANIC COMPOUND, BENZENE DERIVATIVE, RADIATION EFFECT, CHEMICAL REACTION MECHANISM

CONTROL MARKING--NO RESTRICTIONS

PROXY REEL/FRAME--1992/1622

STEP NO--UR/0456/70/004/002/0169/0170

CIRC ACCESSION NO--APO112616

UNCLASSIFIED

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PROCESSION DATE--300CT70

CIRC ACCESSION NO-APO112616

ABSTRACT/EXTRACT--(U) GP-O- ABSTRACT. AT 220EGREES AND 3 MM PARTIAL BZCL PRESSURE POLYETHYLENE (I) FILM ABSORBS SIMILAR TO 0.2PERCENT BZCL IN 2-3 MIN. IRRADN. OF THIS FILM FOR 20 MIN GAVE SIMILAR TO 60PERCENT CROSSLINKING. THIS REACTION IS 1.87 ORDER, WHICH INDICATES THAT 2 LIGHT GUANTA PARTICIPATE. THE REACTION INVOLVES THE FORMATION OF PH AND CLCO RADICALS WHICH ADD TO I, CRUSSLINKING IT. FACILITY: INST. KHIM. VYSOKOMOL. SOEDIN., KIEV, USSR.

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Soviet Inventions Illustrated, Section II Electrical, Derwent, 70

242504 VOLTAGE GENERATOR is useful in radioelectronic equipment for identification of targets, and for solving problems of determining the probability coefficients of accidental characteristics in data storage and identification systems. The proposed generator contains a non-linear element such as a varicond connected to the voltage through a condenser and the outlet busbar is connected to

the common point of the varicond and load.

The non-linear varicond 1 is connected in series to the impendance of Load 2. Through the resistor 3 a displacing voltage is led from source 4, while entry of the circuit is blocked by a direct current transformer.

11.12.67 as 1202)99/18-24.B.YU.EYLYBENKO & F.1. ANDRUSHCHENKO (5.9.69) Bul 15/25.4.69. Class 42m4. Int.Cl.G 06g.

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